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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/744,493	06/19/2001		Vincent Bryan	46739/252170	5642
23370	7590	12/18/2001			
JOHN S. PR.			EXAMINER		
KILPATRICK 1100 PEACH		•	STEWART, ALVIN J		
SUITE 2800 ATLANTA, GA 30309					
				ART UNIT	PAPER NUMBER
,	•			3738	
				DATE MAILED: 12/18/2001	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/744,493

Applicant(s)

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BRYAN ET AL

Examiner

Alvin Stewart

Art Unit **3738**



The MAILING DATE of this communication appears	on the cover sheet with the correspondence address
	FR 1.136 (a). In no event, however, may a reply be timely filed sation.
communication. - Failure to reply within the set or extended period for reply will, by - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	y statute, cause the application to become ABANDONED (35 U.S.C. § 133). e mailing date of this communication, even if timely filed, may reduce any
Status 1) $ ot N $ Responsive to communication(s) filed on $ ot D $	2001
2a) ☐ This action is FINAL . 2b) 💢 This ac	tion is non-final.
3) Since this application is in condition for allowance closed in accordance with the practice under Ex pa	except for formal matters, prosecution as to the merits is arte Quayle, 1935 C.D. 11; 453 O.G. 213.
Disposition of Claims	
4) 🔀 Claim(s) <u>1-21</u>	is/are pending in the application.
4a) Of the above, claim(s)	is/are withdrawn from consideration.
5) Claim(s)	is/are allowed.
6) 💢 Claim(s) <u>1-21</u>	is/are rejected.
7) Claim(s)	is/are objected to.
	are subject to restriction and/or election requirement.
Application Papers	
9) The specification is objected to by the Examiner.	
10) The drawing(s) filed on is/are	e objected to by the Examiner.
11) The proposed drawing correction filed on	
12) The oath or declaration is objected to by the Exam	
Priority under 35 U.S.C. § 119	
13) Acknowledgement is made of a claim for foreign p	priority under 35 U.S.C. § 119(a)-(d).
a) \square All b) \square Some* c) \square None of:	
1. Certified copies of the priority documents have	ve been received.
2. Certified copies of the priority documents have	ve been received in Application No
3. Copies of the certified copies of the priority of application from the International Bure *See the attached detailed Office action for a list of the	
14) Acknowledgement is made of a claim for domestic	
Attachment(s)	
15) X Notice of References Cited (PTO-892)	18) Interview Summary (PTO-413) Paper No(s).
16) Notice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application (PTO-152)
17) X Information Disclosure Statement(s) (PTO-1449) Paper No(s). 5	20} Other:

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DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature

of the invention specified in the claims. Therefore, the sheath attached to the housing halves must

be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Claim Objections

Claim 18 is objected to because of the following informalities: in line 4, the word viscoelastic

is misspell. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled

the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the

applicant for patent.

Claims 1, 3, 8 and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Shepperd US

Patent 4,863,476.

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Shepperd discloses a cylindrical housing (1), the housing including an upper half (5), a lower

half (6), a plurality of resilient discs (3) interposed between the upper half housing and the lower half

housing to maintain the housing halves separate from one another. Each disc is surrounded by

concave surfaces (8 & 9) formed within the housing.

Claims 11-13, 16 and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by

Rogozinski US Patent 5,888,226.

Rogozinski discloses a hollow cylindrical housing including two separate halves, one resilient

disc having a convex external surface located between the two housing halves, and an interior

concave surface. The resilient disc has a relative soft interior and a relative hard durable exterior (see

Figs. 1-12).

Claims 18 and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Cauthen US

Patent 6,179,874.

Cauthen discloses an articulating spinal implant comprising a housing with an exterior surface

having a thread formation, two rigid confronting parts, and one resilient disc interposed between the

rigid parts.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the

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subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-6 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shepperd US Patent 4,863,476 in view of Cauthen US Patent 6,179,874 B1.

Shepperd discloses the invention substantially as claimed. However, Shepperd does not disclose a threaded exterior surface and recesses to permit bone ingrowth.

Cauthen teaches a threaded exterior surface and recesses to permit bone ingrowth for the purpose of attaching the implant between two vertebrae bone.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the exterior surface of the Shepperd reference with the threaded exterior surface and recesses of the Cauthen reference in order to attach the implant between two vertebrae bone.

Claims 2 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shepperd US Patent 4,863,476.

Shepperd discloses the invention substantially as claimed. However, Shepperd does not disclose a disc having an ovoid-shape and a plurality of wings attached to each member.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to add a plurality of wings attached to the members in order to fix the implant to the vertebrae bones.

Regarding claim 2, it would have been obvious matter of design choice to modify the Shepperd reference by having discs with an ovoid-shape, since applicant has not disclosed that the

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ovoid shape solves any stated problem and it appears that the cylindrical shape of the Shepperd

reference would perform equally.

Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rogozinski

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US Patent 5,888,226.

Rogozinski discloses the invention substantially as claimed. However, Rogozinski does not

disclose an external threaded surface and a plurality of recesses in order to permit bone ingrowth.

It is common knowledge in the prior art to have threaded external surfaces and a plurality of

recesses in the same field of endeavor for the purpose of attaching the device within the vertebrae

plates.

It would have been obvious to one having ordinary skill in the art at the time the invention was

made to modify the external surface of the Rogozinski reference with a threaded surface and a

plurality of recesses in order to promote the growth of bone tissue and attach the implant within the

vertebrae plates.

Claims 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cauthen

US Patent 6,179,874 B1.

Cauthen discloses the invention substantially as claimed. However, Cauthen does not disclose

a sheath attached to the housing halves and a plurality of nuclei of different sizes.

Regarding claim 20, it would have been obvious to one having ordinary skill in the art at the

time the invention was made to add a sheath attached to the housing halves in order to promote the

growth of bone tissue into the implant. Additionally, it would have been obvious to one having

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ordinary skill in the art at the time the invention was made to include a plurality of nuclei of different

sizes in order to fit different sizes of the implant.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be

directed to Exr. Alvin Stewart whose telephone number is (703) 305-0277. The examiner can

normally be reached on Monday-Friday from 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Corrine McDermott, can be reached on (703)308-2111. The fax phone number for the organization

where this application or proceeding is assigned is (703) 305-3590.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0858.

Alvin Stewart

December 06, 2001.

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Attachment for PTO-948 (Rev. 03/01, or earlier) 6/18/01

The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Informalities -- 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein Identifying indicia, if provided, should include the title of the invention inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the Notice of Allowability. Extensions of time may NOT be obtained under the provisions of 37 CFR 1 136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Draftsperson, MUST be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings MUST be approved by the examiner before the application will be allowed. No changes will be permitted to be made other than correction of informalities, unless the examiner has approved the proposed changes

Timing of Corrections

Applicant is required to submit the drawing corrections within the time period set in the attached Office communication See 37 CFR 1.85(a)

Failure to take corrective action within the set period will result in ABANDONMENT of the application.